Name: Dr. Anirban Bose

Department: Computer Science & Engineering

Contact Nos.: 9903244083

Qualifications: PhD

Designation: Assistant Professor (Grade 3)

VIDWAN ID: 187539

Experience (Teaching / Research / Industry, in years): 14 years

Date of Joining at the Present Institution: 26/07/2006

Examinations Cleared: GATE

Qualifications Summary (Reverse chronological order):

Degree	Subjects	From – To	Institute
PhD	On Improved Spread Spectrum Image Watermark Recovery in Compressed Sensing Measurements	2013 - 2019	Indian Institute of Engineering Science and Technology, Shibpur, Howrah
M.Tech	Control System Engineering	2004 - 2006	IIT Kharagpur
B.Tech	Instrumentation Engineering	1998 - 2002	Haldia Institute of Technology
10+2	Science	1997	W.B.C.H.S.E
10th	Science	1995	W.B.B.S.E

Experience Summary (In chronological order):
Designation, Organization, Date From – Date To

Designation	Organization	From	To
Senior Lecturer	Dr. B. C. Roy Engineering College, Durgapur	26/07/2006	30/06/2010
Assistant Professor (Gr. 2)	Dr. B. C. Roy Engineering College, Durgapur	01/07/2010	31/12/2019
Assistant Professor (Gr. 3)	Dr. B. C. Roy Engineering College, Durgapur	01/01/2020	present

Specialization/Research Interest: Image Watermarking, Pattern Recognition, Machine Learning

Awards & Recognitions
Best paper/ scholarship/Position in university exam / awards while at industry/ other organizations etc.

● Achieved **GATE** percentile of **99.61 (**All India rank 21).

● Received IEEE Young Professional Best paper award in *Computational Intelligence, Communications, and Business Analytics (CICBA)* – 2017.

Courses taught:

B.Tech: Specify the name of the subject/s (Theory first and then practical): Basic Electronics, Control System, Process Control, Process Control II, Digital Image Processing, Digital Signal Processing, Basic Electronics Lab, Control System Lab, Process Control Lab, Industrial Instrumentation Lab

M.Tech: specify the name of the Subject/s: NA

Online Mode of Teaching:

The Faculty member needs to specify the online teaching/ assessment method adopted. (Link to any faculty created resources for Lecture notes / PPT/ Video Lecture etc. in Google Drive / Weblink etc)
Lectures are provided through either PPT or scanned documents and class assesments are taken using Google forms
https://drive.google.com/drive/folders/

Publications:

Journal:

- **A. Bose** and S. P. Maity,"Spread spectrum image watermark detection on degraded compressed sensing measurements with distortion minimization", Multimedia Tools and Applications, vol. 77, no. 16, pp. 20783 - 20808, 2018, ISSN: 1380-7501 .
- **A. Bose** and S. P. Maity,"Spread Spectrum Watermark Detection on Degraded Compressed Sensing", IEEE Sensors Letters, vol. 1, no. 5, pp. 1 - 4, 2017, ISSN: 2475-1472.
- **A. Bose** and S. P. Maity, "On robust watermark detection for optimum multichannel compressive transmission", Microsystem Technologies, 2018, vol. 24, no. 3, ISSN: 0946-7076.

Conference:
International Conference

- **A. Bose** and S. P. Maity and C. Delpha,"On improved spread spectrum watermark detection under compressive sampling", in Proc. of 5th European Workshop on Visual Information Processing (EUVIP), 10-12 Dec. 2014, IEEE, Electronic ISBN: 978-1-4799-4572-6.
- **A. Bose** and S. P. Maity and S. Maity,"Image watermarking on degraded compressed sensing measurements", in Proc. of International Conference on Advances in Computing, Communications and Informatics (ICACCI), 10-13 Aug. 2015, IEEE, Electronic ISBN: 978-1-4799-8792-4, Print ISBN: 978-1-4799-8790-0.
- **A. Bose** and S. P. Maity,"Improved spread spectrum compressive image watermark detection with distortion minimization", in Proc. of International Conference on Signal Processing and Communications (SPCOM), 12-15 June

2016, IEEE, Electronic ISBN: 978-1-5090-1746-1, Print on Demand(PoD) ISBN: 978-1-5090-1747-8.

- **A. Bose** and S. P. Maity,"On improved CS-SS image watermark detection over radio mobile channel", in Proc. of Tenth Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP), 18 - 22 December 2016, ACM, ISBN: 9781450347532.

- **A. Bose** and S. P. Maity,"On Robust Watermark Detection for Optimum Multichannel Compressive Transmission", in Proc. of Computational Intelligence, Communications, and Business Analytics (CICBA), March 24-25, 2017, Springer Singapore, Print ISBN: 978-981-10-6426-5, Online ISBN: 978-981-10-6427-2.

Book:
Name of the author/s **(Make bold font for own name)**, "Title of the Book", Name of the Publisher, Year of Publication, ISBN Number (Print / Online)

Ex: 3. Opperman, **I., Hamalainen**, M., Iinatti, J. "UWB theory and applications" (John Wiley and Sons, 2004) , Print ISBN 978-981-13-3121-3, Online ISBN 978-981-13-3122-0

Book Chapter:
Name of the author /s **(Make bold font for own name)** "Title of the Chapter", "Page no. of the Chapter", "Title of the Book", "Name of the Publisher", Year of Publication. ISBN Number (Print / Online)

Ex: 4. Opperman, I., Hamalainen, M., Iinatti, J. "Abc xyz" pp. 123-127 ''UWB theory and applications" (John Wiley and Sons, 2004), Print ISBN 978-981-13-3121-3, Online ISBN 978-981-13-3122-0

Supervision of Ph.D/M.Tech / B.Tech Projects:

For Ph.D

1. **Name of the student, Name of the supervisor, " Title of the thesis", Year , Name of the university (completed)**
2. **Name of the student, Name of the supervisor, " Title of the thesis", Year, Name of the university (Registered)**

Projects:
1. **Name of the student/s (with university roll number), Name of the supervisor, " Title of the Project / thesis" , Year (only final year 8ᵗʰ Sem Project for B.Tech and Thesis for M.Tech)**

Year	Title of the Thesis	Name of the	University Roll

		Students	No.
2016	Automated Fruit/object quality detection system using feature extraction through image processing	Arghya Mukherjee Avik Chatterjee Tufan Atha	12000512008 12000512010 12000512060
2017	Two stage Watermarking based Image Processing Technique	Soumi Biswas Ranjan Dutta Souvik Ghosh	12000513046 12000513036 12000513047
2018	Designing Of PID Controller for GA Based Reduced Order System	Shikha Shekhar	12005514014
2019	Optimum Controller Design Based on GA Technique	Jyoti Prasad Roy Shubham Kumar Singh	12005515014 12005515027
2020	Model Predictive PI Controller Design using Machine Learning	Anku Singh Priyanshi Kumari Nidhi Kumari Prince Kumar	12005516035 12005516016 12005516019 12005516018

Invited Lectures:
Topic of the lecture, Name of the event, organized by, Date

Participation in seminar/conference/symposium/workshop/discussion meeting

Name of the event, duration, Year, Organized by.

- **Participated in international conference on "Computing, Communication and Sensor Networks" held on 22 – 23rd November, 2012, organized by Purushottam Institute of Engineering & Technology, Rourkela, Orissa.**
- **Participated in the technical workshop titled as "Recent Trends in Machine Intelligence, Data Mining and Soft Computing Techniques and its Impact on Research and Development, held during 23rd – 24th November, 2013 and was organized by Dr. B. C. Roy Engineering College, Durgapur.**
- **Presented a paper in national seminar on "Research Scholar Day" held during 29th – 30th January, 2014 and was organized by Bengal Engineering and Science University, Shibpur.**
- **Participated in two week ISTE workshop on "Signals and Systems" conducted jointly by IIT Kharagpur and NIT Durgapur under NMEICT**

MHRD during 2ⁿᵈ – 12ᵗʰ January 2014.
- **Presented a paper titled "On Robust Watermark Detection for Optimum Multichannel Compressive Transmission" at CICBA during 24ᵗʰ -25ᵗʰ March, 2017, organized by Calcutta Business School.**

Participation in faculty development programmes

Name of the faculty development programmes, Online / Face-to-face/ From Date – To Date, Duration, Year, Organized by.

Attained **ELITE** grade in **NPTEL FDP** for the course named "**Joy of Computing using Python**" in September, 2020 (online).

Organization of events (Dr. B. C. Roy Engineering College)

Name of the event, Date, Year

Organized a workshop titled as "Basics of Python" conducted jointly by FOSSEE and IITB at Dr. B. C. Roy Engineering College, Durgapur during 1ˢᵗ to 3ʳᵈ May, 2019.

Participation in administrative committees (selected)

Name of the post (Convener/Joint Convenor/Member secretary/Co-ordinator etc.), Name of the committee, year

Acting as a core committee member in "NAAC ACCREDITATION COMMITTEE" from 11ᵗʰ July, 2019.

Project Ideas Submitted to Govt. Agencies/ On-going Projects / Research Ideas under preparation & execution

Membership of professional bodies: IEEE, IETE, IEI, CSI, MGMI etc.